

**CLAIMS:**

1. A method comprising:  
measuring power of a first signal associated with a first cell of a frequency division multiple access (FDMA) system;  
measuring power of a second signal associated with a second cell of the FDMA system, the second cell being adjacent to the first cell in terms of frequency; and  
setting a value indicative of the measured power of the second signal to a negligible value when the measured power of the second signal is more than a threshold value less than the measured power of the first signal.
2. The method of claim 1, wherein the FDMA system comprises a global system for mobile communications (GSM) system.
3. The method of claim 1, wherein the negligible value is approximately equal to zero.
4. The method of claim 1, wherein the threshold is in a range of approximately 10 to 20 decibels.
5. The method of claim 4, wherein the threshold is approximately 15 decibels.
6. The method of claim 1, further comprising:  
measuring power of a plurality of signals associated with a plurality of cells of the FDMA system; and  
setting a value indicative of a measured power of a given one of the signals associated with a given cell to a negligible value when the measured power of the given signal is more than a threshold value less than a measured power of another one of the signals associated with an adjacent cell to the given cell.

7. The method of claim 6, further comprising:
  - prioritizing the plurality of signals based on values indicative of the measured power of the signals;
  - selecting a desirable one of the cells based at least in part on the prioritization; and
  - registering with a network associated with the desirable cell.
8. A method comprising:
  - receiving a signal associated with a cell of a frequency division multiple access (FDMA) system, the cell spanning a first frequency range;
  - filtering the signal to a second frequency range, wherein the second frequency range is smaller than the first frequency range; and
  - measuring power of the filtered signal to identify an estimate of power associated with the cell.
9. The method of claim 8, wherein the FDMA system comprises a global system for mobile communications (GSM) system.
10. The method of claim 9, wherein the first frequency range is approximately 200 kilohertz and the second frequency range is approximately 100 kilohertz.
11. The method of claim 8, further comprising:
  - filtering a plurality of signals associated with cells of the FDMA system to the second frequency range;
  - measuring power of the plurality of filtered signals;
  - prioritizing the plurality of filtered signals based on the measured power of the filtered signals;
  - selecting a desirable one of the cells based at least in part on the prioritization; and
  - registering with a network associated with the desirable cell.

12. A subscriber unit of a frequency division multiple access (FDMA) system comprising:

a receiver to receive a first signal associated with a first cell of the FDMA system and a second signal associated with a second cell of the FDMA system, the second cell being adjacent to the first cell in terms of frequency; and

a control unit to measure power of the first and second signals and set a value indicative of the measured power of the second signal to a negligible value when the measured power of the second signal is more than a threshold value less than the measured power of the first signal.

13. The subscriber unit of claim 12, wherein the FDMA system comprises a global system for mobile communications (GSM) system.

14. The subscriber unit of claim 12, wherein the negligible value is approximately equal to zero.

15. The subscriber unit of claim 12, wherein the threshold is in a range of approximately 10 to 20 decibels.

16. The subscriber unit of claim 12, wherein the threshold is approximately 15 decibels.

17. The subscriber unit of claim 12, wherein the receiver receives a plurality of signals associated with a plurality of cells of the FDMA system, and the control unit measures power of the plurality of signals and sets a given value indicative of a measured power of a given one of the signals associated with a given one of the cells to a negligible value when the measured power of the given signal is less than a measured power of another signal associated with an adjacent cell to the given cell.

18. The subscriber unit of claim 17, wherein the control unit prioritizes the plurality of signals based on values indicative of the measured power of the signals, selects a desirable

one of the cells based at least in part on the prioritization, and causes the subscriber unit to register with a network associated with the desirable cell.

19. A subscriber unit of a frequency division multiple access (FDMA) system comprising:

a receiver to receive a signal associated with a cell of a frequency division multiple access (FDMA) system, the cell spanning a first frequency range; and

a control unit to filter the signal to a second frequency range, wherein the second frequency range is smaller than the first frequency range, and measure power of the filtered signal to identify an estimate of power associated with the cell.

20. The subscriber unit of claim 19, wherein the FDMA system comprises a global system for mobile communications (GSM) system.

21. The subscriber unit of claim 20, wherein the first frequency range is approximately 200 kilohertz and the second frequency range is approximately 100 kilohertz.

22. The subscriber unit of claim 19, wherein the control unit filters a plurality of signals associated with cells of the FDMA system to the second frequency range, measures power of the plurality of filtered signals, prioritizes the plurality of filtered signals based on the measured power of the filtered signals, selects a desirable one of the cells based at least in part on the prioritization, and causes the subscriber unit to register with a network associated in the desirable one of the cells.

23. A computer-readable medium comprising instructions to cause subscriber unit of a frequency division multiple access (FDMA) system to:

measure power of a first signal associated with a first cell of the FDMA system;

measure power of a second signal associated with a second cell of the FDMA system, the second cell being adjacent to the first cell in terms of frequency; and

set a value indicative of the measured power of the second signal to a negligible value when the measured power of the second signal more than a threshold value less than the measured power of the first signal.

24. The computer-readable medium of claim 23, wherein the FDMA system comprises a global system for mobile communications (GSM) system.

25. The computer-readable medium of claim 23, wherein the threshold is in a range of approximately 10 to 20 decibels.

26. A computer-readable medium comprising instructions to cause subscriber unit of a frequency division multiple access (FDMA) system to:

receive a signal associated with a cell of the FDMA system, the cell spanning a first frequency range;

filter the signal to a second frequency range, wherein the second frequency range is smaller than the first frequency range; and

measure power of the filtered signal to identify an estimate of power associated with the cell.

27. The computer-readable medium of claim 26, wherein the FDMA system comprises a global system for mobile communications (GSM) system.

28. The computer-readable medium of claim 27, wherein the first frequency range is approximately 200 kilohertz and the second frequency range is approximately 100 kilohertz.

29. A subscriber unit of a frequency division multiple access (FDMA) system comprising:

means for receiving a first signal associated with a first cell the FDMA system and a second signal associated with a second cell of the FDMA system, the second cell being adjacent to the first cell in terms of frequency;

means for measuring power of the first and second signals; and

means for setting a value indicative of the measured power of the second signal to a negligible value when the measured power of the second signal more than a threshold less than the measured power of the first signal.

30. The subscriber unit of claim 29, wherein the FDMA system comprises a global system for mobile communications (GSM) system, and the threshold is in a range of approximately 10 to 20 decibels.

31. A subscriber unit of a frequency division multiple access (FDMA) system comprising:

means for receiving a signal associated with a cell of the FDMA system, the cell spanning a first frequency range;

means for filtering the signal to a second frequency range, wherein the second frequency range is smaller than the first frequency range; and

means for measuring power of the filtered signal to identify an estimate of power associated with the cell.

32. The subscriber unit of claim 31, wherein the FDMA system comprises a global system for mobile communications (GSM) system, and the first frequency range is approximately 200 kilohertz and the second frequency range is approximately 100 kilohertz.